

Abstract

Compounds of the \formula

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R₂

N
H

N
H

R₃

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wherein n is 0, 1, or 2; X is hydrogen, chlorine, bromine, or iodine; R₁ is hydrogen; R₂ is selected from cyand, $-(CH_2)_m - (C=O) NR_5 R_6$, halogen, -OR₄, $-(CH_2)_m - SO_2NR_5R_6$, $-(CH_2)_m - NR_7(C \neq 0)R_8$, $-(CH_2)_m - NR_7SO_2R_8$, $-(CH_2)_m - NR_7SO_2R_8$ $-(CH_2)_m-NR_7(C=O)NR_5R_0^1$, $-(CH_2)_m-NR_7(C=O)OR_9$, $S(0)_{\tau}R_{s}$ -CH=CH(CH₂), R_{10} ; R_3 is selected from hydrogen and C_1 to C_6 linear or branched alkyl; R4 is selected from hydrogen, C_1 to C_6 alkyl, and aryl; R_5 and R_6 are independently selected from hydrogen, C_1 to C_6 alkyl, aryl, and C_1 to C_3 alkyl-aryl or R₅ and R₆ taken together to form a 4, 5, or 6 membered ring; R7 and R8 are independently selected from hydrogen, C_1 to C_6 alkyl, aryl, and C_1 to C_3 alkyl-aryl; R_9 is selected from hydrogen, C_1 to C_6 alkyl, aryl, and C_1 to alkyl-aryl; R₁₀ is selected from -(C=0)NR₅R₆ $-SO_2NR_5R_6$, wherein R_5 and R_6 are defined as above, and $-NR_7$ (C=O) R_8 , $-NR_7SO_2R_8$, $-NR_7$ (C=0) NR_5R_6 , $-S(0)_{x}R_{8}$ and -NR₇(C=0) OR₉, wherein R₇, R₈, and R₉ are as defined above; y is 0, 1, 2, 3, or 4; x is 1 dr 2; m is 0, 1, 2, or 3; and the above aryl groups and the aryl moieties of the above alkylaryl groups are independently selected from phenyl and substituted phenyl, wherein said substituted phenyl may be substituted with one to three groups selected from C1 to C4 alkyl, halogen, hydroxy, cyano, carboxamido, nitro, and C_1 to C_4 alkoxy, with the proviso that when R_2 is hydrogen or $-OR_4$ and R_4 is hydrogen, and

the pharmaceutically acceptable salts thereof are new. These compounds are useful psychotherapeutics and are potent serotonin (5-HT₁) agonists and may be used in the treatment of depression, anxiety, eating disorders, obesity, drug abuse, cluster headache, migraine, pain, chronic paroxysmal hemicrania and headache associated with vascular disorders, and other disorders arising from deficient serotonergic neurotransmission. The compounds can also be used as centrally acting antihypertensives and vasodilators. A process for forming indoles by transition metal catalyzed cyclization of a dihalogenated intermediate.

15 BACKUP OF ID 21538

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